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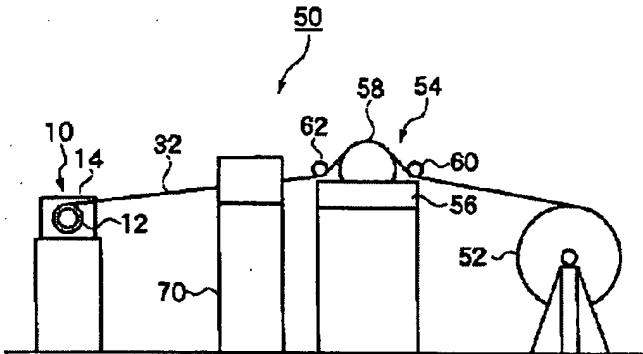
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TITLE : METHOD AND APPARATUS FOR  
PREHEATING PAPER TUBE BASE  
PAPER



10 : スpiral winder  
12 : マンドレル  
32 : 紙管原紙  
50 : 紙管製造設備  
54 : 粘着剤供給装置  
70 : 予熱装置

ABSTRACT : PROBLEM TO BE SOLVED: To protect an operator from a burn by preventing the generation of fire.

SOLUTION: A paper tube base paper 32 is drawn out from a supply roll 52, an adhesive is applied on the lower surface of the paper 32 by an applicator 54, and the paper 32 is wound onto the mandrel 12 of a spiral winder 10. A preheater 70 is arranged between the applicator 54 and the spiral winder 10, and the adhesive applied on the paper 32 is heated. The preheater 70 has an electrode part facing the uncoated upper surface of the paper 32, and a high frequency electric field is applied to the paper 32 by the electrode part to induction-heat the paper 32 and the adhesive.

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